

Special Issue

Animal Models for Gene Function and Disease Mechanisms

Message from the Guest Editor

Spontaneously mutated or genetically modified models are useful for studying gene functions, disease mechanisms, and therapeutic targets. Considering the heterogeneity of animals, studies using several different animal models are necessary to validate conservations or differences of the data between different species. New technologies such as genome editing and whole genome sequence analysis have made it possible to study gene functions and disease mechanisms at the molecular level in various animal species. This Special Issue welcomes submissions of original research articles, reviews, and communications characterizing disease models and analyzing their pathogenesis in various animal species, and research using materials obtained from investigations of animals with diseases, comparative research of human and animal diseases, and veterinary research regarding species-specific diseases of biological interest. The goals are to list useful animal models with their phenotypes and to inform the readership of new findings obtained from them.

Guest Editor

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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